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국제예비심사기관(이광제)

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【수신처】 특허청장

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【취지】 「특허법 시행규칙」 제106조의33제2항·제106조의36제3항 및 제106조의40제6항의 규정에 의하여 위와 같이 제출합니다.

대리인 변리사 노장오



【첨부서류】 1. 영어로 작성된 보정서 2통

2. 보정내용 및 이유를 기재한 설명서 1통

3. 대리인에 의하여 절차를 밟는 경우에는 그 대리권을 증명하는 서류 1통

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<Reasons for Amendment>

To correct errors in the detailed description of the invention, delete duplicate claims and add new claims within the scope of the technical idea covered by the detailed description of the specification and drawings.

<Items to be Amended>

1. Description of FIGS. 18 to 20 on page 15 of the specification
2. Description of FIG. 39 on page 16 thereof
3. Deletion of claims 66 to 69
4. Creation of claims 70 to 81

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FIGS. 7A and 7B are sectional views showing the construction and operation of the 5th embodiment of the present invention;

FIG. 8 is a sectional view showing the construction of the 6th embodiment of the present invention;

5 FIG. 9 is a plan view showing the structure of ratchets used for restriction of rotation of the opening unit relative to the additive storage container of the 6th embodiment of the present invention;

10 FIGS. 10A and 10B are enlarged sectional views showing a seal structure of the additive storage container and the mouth of a bottle body according to the 6th embodiment of the present invention;

FIGS. 11A and 11B are sectional views showing the operation of the 6th embodiment of the present invention;

15 FIG. 12 is a sectional view showing the assembled construction of the 7th embodiment of the present invention;

FIG. 13 is a sectional view showing the assembled construction of the 8th embodiment of the present invention;

20 FIG. 14 is a sectional view showing the assembled construction of the 9th embodiment of the present invention;

FIG. 15 is a perspective view showing an opened state of an upper cap of the 9th embodiment of the present invention;

25 FIG. 16 is a sectional view showing the assembled construction of the 10th embodiment of the present invention;

FIG. 17 is a sectional view showing the assembled construction of the 11th embodiment of the present invention;

30 FIG. 18A through 18C are sectional views showing the operation of the 11th embodiment of the present invention;

FIG. 19 is a sectional view showing the assembled construction of the 12th embodiment of the present invention;

FIG. 20 is an enlarged sectional view showing the construction of an important part of the 12th embodiment of the present invention;

35 FIG. 21 is a sectional view showing the assembled construction of the 13th embodiment of the present invention;

FIG. 38 is a sectional view showing the construction of the 19th embodiment of the present invention;

FIGS. 39A through 39C are sectional views showing the operation of the 19th embodiment of the present invention;

5 FIG. 40 is a sectional view showing the construction of the 20th embodiment of the present invention;

FIG. 41 is a perspective view showing the assembled construction of the 20th embodiment of the present invention;

10 FIGS. 42A and 42B are sectional views showing the operation of the 20th embodiment of the present invention;

FIG. 43 is an exploded perspective view showing the construction of the 21st embodiment of the present invention;

FIG. 44 is a sectional view showing the construction of the 21st embodiment of the present invention;

15 FIGS. 45A and 45B are sectional views showing the operation of the 21st embodiment of the present invention;

FIGS. 46A and 46B are sectional views showing the construction and operation of the 22nd embodiment of the present invention;

20 FIGS. 47A and 47B are sectional views showing the construction and operation of the 23rd embodiment of the present invention;

FIG. 48 is a sectional view showing the construction of the 24th embodiment of the present invention;

FIG. 49 is a side view showing the appearance of an additive storage container of the 24th embodiment of the present invention;

25 FIGS. 50A and 50B are sectional views showing the operation of the 24th embodiment of the present invention;

FIG. 51 is a sectional view showing the construction of the 25th embodiment of the present invention;

30 FIG. 52 is a side view showing the appearance of an additive storage container of the 25th embodiment of the present invention; and

FIGS. 53A and 53B are views showing the operation of the 25th embodiment of the present invention.

【Best Mode】

additive storage container corresponding to the upper end surface of the mouth is provided with an upper ratchet, so that the additive storage container is allowed to rotate in one direction relative to the mouth.

【Claim 62】

5 The bottle according to claim 61, wherein an upper part of the additive storage container is provided with a lower ratchet piece, and a lower surface of the opening unit corresponding to the upper part of the additive storage container is provided with an upper ratchet piece that is allowed to rotate in one direction relative to the lower ratchet piece, so
10 that rotational force of the opening unit is transmitted to the additive storage container.

【Claim 63】

15 The bottle according to claim 62, wherein ring-shaped seal protrusions are provided around an outer circumferential surface of the slider at positions above and below the discharge port.

【Claim 64】

20 The bottle according to any one of claims 59 through 63, wherein the slider is provided therein with a partition wall that divides an additive storage space into two parts, with a discharge port and an open port formed on the two divided parts of the additive storage space.

【Claim 65】

The bottle according to claim 64, wherein the finish plate is provided with at least one open port to supply the interior of the additive storage space with additive.

25 **【Claim 66】 (Canceled)**

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deleted

【Claim 67】 (Canceled)

【Claim 68】 (Canceled)

【Claim 69】 (Canceled)

【Claim 70】 (Added)

5 A bottle, comprising:
 a bottle body having a mouth with an external thread formed around
 an outer circumferential surface of the mouth;
 an additive storage container having an end plate being in surface
 contact with an open end of the mouth, an inner cap extending downward in
10 an axial direction from an inner circumferential edge of the end plate and
 movably inserted into the mouth in an axial direction, and an external
 thread that protrudes outward from an outer circumferential edge of the
 end plate in a radial direction to be continuous with the external thread
 of the mouth;
15 a bursting film which seals a lower end of the additive storage
 container;
 an opening unit comprising a finish plate provided on an upper
 part of the inner cap, an upper cap extending downward in an axial
 direction from an outer circumferential edge of the finish plate and
20 having an internal thread engaging with the external threads of both the
 mouth and the end plate at the same time, and a slider extending in an
 axial direction from the finish plate and movably inserted into the inner
 cap in an axial direction, with a cutting edge provided on a lower end of
 the slider so as to tear off the bursting film at a predetermined
25 position.

【Claim 71】 (Added)

30 The bottle according to claim 70, wherein the cutting edge
 comprises a support shaft, with at least one reinforcing rib provided
 around the support shaft of the cutting edge to increase the strength of
 the support shaft.

【Claim 72】 (Added)

The bottle according to claim 71, wherein the bursting film is selected from a thin aluminum film or a thin film which is produced through a molding process from the same material as is the inner cap, with
5 a tear-off line provided on the thin film.

【Claim 73】 (Added)

A bottle, comprising:

a bottle body having a mouth with an external thread formed around an outer circumferential surface of the mouth;

10 an additive storage container having an end plate being in surface contact with an open end of the mouth, a main cap extending in an axial direction from an outer circumferential edge of the end plate and having an internal thread engaging with the external thread of the mouth through a screw-type engagement, an inner cap extending in an axial direction from an inner circumferential edge of the end plate and movably inserted into the mouth, with a plurality of discharge ports formed around a lower end of the inner cap, and an extension part extending upward from the inner circumferential edge of the end plate so that the extension part is opposite the inner cap, with an external thread formed around an outer circumferential surface of the extension part;

20 a plug mounted to a lower end of the inner cap, thereby sealing an axial opening of the inner cap; and

25 an opening unit comprising a finish plate placed on an upper end of the extension part, an upper cap extending in an axial direction from an outer circumferential edge of the finish plate and engaging with the external thread of the extension part, and a slider extending in an axial direction from an inner surface of the end plate and movably inserted into the inner cap, so that an end of the slider is sealed by the plug.

【Claim 74】 (Added)

30 The bottle according to claim 73, wherein the plug is provided at a lower end thereof with a stop ring that engages with a stop protrusion provided around a lower end of an inner surface of the inner cap so that axial movement of the plug relative to the slider is restricted.

【Claim 75】 (Added)

The bottle according to claim 74, wherein a seal ring is provided on an upper end of the plug so that the seal ring comes into contact with a lower end of the slider.

5 【Claim 76】 (Added)

The bottle according to claim 74, wherein a cylindrical seal ring is provided in a lower part of the interior of the slider so that the cylindrical seal ring comes into contact with an upper end of the plug.

【Claim 77】 (Added)

10 The bottle according to claim 76, wherein the cylindrical seal ring is integrated with the slider through a double injection molding process in which the cylindrical seal ring is inserted in a cavity of a mold when the slider is produced by injection molding.

【Claim 78】 (Added)

15 The bottle according to any one of claims 73 through 77, wherein the inner cap is provided with a step so that the inner cap is spaced apart from the inner circumferential surface of the mouth.

【Claim 79】 (Added)

20 The bottle according to claim 78, wherein the external thread of the extension part is formed as a thread having a direction opposite to that of the external thread of the mouth.

【Claim 80】 (Added)

25 The bottle according to claim 79, wherein the extension part is provided with a stopper which extends outward in a radial direction around the outer circumferential surface of the extension part and limits upward movement of the upper cap to a predetermined position.

【Claim 81】 (Added)

The bottle according to claim 80, wherein the extension part is provided with an interference protrusion that interferes with the upper cap, thus generating sound, while the upper cap is provided with a sound port to transmit the sound outside the bottle.

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